

Title (en)

Anchor unit with expansive anchor member expanded by utilizing turning force of bolt

Title (de)

Verankerungseinheit mit einem durch das auf den Bolzen einwirkende Drehmoment ausweitbaren Verankerungsteil

Title (fr)

Ensemble d'ancrage comprenant un élément d'ancrage expansible par le couple de rotation agissant sur le boulon

Publication

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Application

EP 96103791 A 19960311

Priority

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- JP 5215895 A 19950313
- JP 16322995 A 19950629
- JP 19729795 A 19950802

Abstract (en)

Anchor unit of this invention is provided with a plug (12) which is driven into an anchor socket (1) or sleeve to expand its split end portion (6) by rotating a bolt (2) which is engaged with the anchor socket (1) or the plug (12) by threads, in a predetermined direction. In one embodiment, the plug (12) is a separable end portion of the bolt (2) which is movable together with a remaining portion of the bolt (2) when the bolt (2) is rotated in the above described predetermined direction and twisted off or separated from the remaining portion when the bolt (2) is rotated in a direction opposite to the above described predetermined direction. <IMAGE>

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IPC 8 full level

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Citation (search report)

- [A] EP 0306681 A1 19890315 - HILTI AG [LI]
- [A] GB 1345044 A 19740130 - TUFLEX AG
- [A] DE 3006480 A1 19810827 - REHM GALLUS [DE]
- [A] EP 0612924 A1 19940831 - HILTI AG [LI]
- [A] CH 586356 A5 19770331 - HUWYLER RUDOLF
- [PA] EP 0660003 A1 19950628 - HILTI AG [LI]

Cited by

AU2007205735B2; EP2570682A1; FR2792976A1; US5993129A; CN1068660C; EP0834658A3; EP2484922A3; US7682116B2; US8979452B2; EP4047265A1; WO2022175922A1

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